

VOLUME 20, 1973

CONTENTS

Number 1 — issued May 1973

- Golikov, A. N. and O. A. Scarlato, Method for Indirectly Defining Optimum Temperatures of Inhabitancy for Marine Cold-Blooded Animals. 1
- Golikov, A. N. and V. V. Menshutkin, Estimation of Production Properties of Mollusk Populations. 6
- Cunningham, P. A. and M. R. Tripp, Accumulation and Depuration of Mercury in the American Oyster *Crassostrea virginica*. 14
- Dinet, A., Distribution quantitative du méiobenthos profond dans la région de la dorsale de Walvis (Sud-Ouest Africain). [Quantitative Distribution of Deep-Sea Meiobenthos in the Walvis Ridge Area (South-West Africa)]. 20
- Bodion, J.-Y. et P. Chardy, Analyse en composantes principales du cycle annuel d'un peuplement de copépodes harpacticoides des sables fins infralittoraux de Banyuls-sur-Mer. [Principal Component Analysis of the Annual Cycle of an Harpacticoid Copepod Assemblage from the Infralittoral Fine Sands of Banyuls-sur-Mer]. 27
- Bergquist, P. R. and M. E. Sinclair, Seasonal Variation in Settlement and Spiculation of Sponge Larvae. 35
- Bak, R. P. M., Coral Weight Increment *in situ*. A New Method to Determine Coral Growth. 45
- Patriti, G., Les cladocères des milieux portuaires de Marseille. [The Cladocerans of the Harbour Environment of Marseilles]. 50
- Maeda, M. and N. Taga, Deoxyribonuclease Activity in Seawater and Sediment. 58
- Tuttle, J. H. and H. W. Jannasch, Sulfide and Thio-sulfate-Oxidizing Bacteria in Anoxic Marine Basins. 64
- Fritsch, H. A. R., Über den Einfluß des hydrostatischen Druckes auf die Ultrastrukturen von Zellen und Geweben. I. Untersuchungen am Kiemen-epithel mariner Muscheln. [On the Influence of Hydrostatic Pressure on the Ultrastructures of Cells and Tissues. I. Investigations on Gill Epithelium of Marine Bivalves]. 71
- Kirsteuer, E. and K. Rützler, Additional Notes on *Tubiluchus corallicola* (Priapulida), Based on Scanning Electron Microscope Observations. 78

Number 2 — issued May 1973

- Gage, J. and A. D. Geekie, Community Structure of the Benthos in Scottish Sea-Lochs. III. Further Studies on Patchiness. 89
- Lee, S. W. and L. B. Trott, Marine Succession of Fouling Organisms in Hong Kong, with a Comparison of Woody Substrates and Common, Locally-Available, Antifouling Paints. 101
- Bernhard, M., F. Möller, A. Nassogne and A. Zattera, Influence of Pore Size of Plankton Nets and Towing Speed on the Sampling Performance of Two High-Speed Samplers (Delfino I and II) and its Consequences for the Assessment of Plankton Populations. 109
- Moraitou-Apostolopoulou, M. and V. Kiortsis, The Cladocerans of the Aegean Sea: Occurrence and Seasonal Variation. 137
- Loeb, M. J., The Effect of Light on Strobilation in the Chesapeake Bay Sea Nettle *Chrysaora quinque-cirrha*. 144
- Fernandez, H. R., Spectral Sensitivity and Visual Pigment of the Compound Eye of the Galatheid Crab *Pleuroncodes planipes*. 148
- Wodinsky, J., Ventilation Rate and Copulation in *Octopus vulgaris*. 154
- Salvini-Plawen, L. v., Ein Priapulide mit Kleptocniden aus dem Adriatischen Meer. [A Priapulid with Cleptocnids from the Adriatic Sea]. 165
- Polloni, P. T., G. T. Rowe and J. M. Teal, *Biremis blandi* (Polychaeta: Terebellidae), New Genus, New Species, Caught by D. S. R. V. "Alvin" in the Tongue of the Ocean, New Providence, Bahamas. 170

VOLUME 20, 1973 CONTENTS (continued)

Number 3 — issued June 1973

- Sorokin, Yu. I., Data on Biological Productivity of the Western Tropical Pacific Ocean. 177
- Lebednik, P. A., Ecological Effects of Intertidal Uplifting from Nuclear Testing. 197
- Champalbert, G., Contribution à l'étude du phototropisme du plancton récolté dans la couche hyponeustonique. II. *Anomalocera patersoni*—Influence de l'intensité et de la longueur d'onde de la lumière sur les réactions d'orientation et sur l'activité locomotrice. [Contribution to the Study of Phototropism of Plankton Collected in the Hyponeustonic Level. II. *Anomalocera patersoni*—Influence of Light Intensity and Wavelength on Orientation and Velocity Reactions]. 208
- Bubel, A., An Electron-Microscope Study of Periostracum Formation in Some Marine Bivalves. I. The Origin of the Periostracum. 213
- Bubel, A., An Electron-Microscope Study of Periostracum Formation in Some Marine Bivalves. II. The Cells Lining the Periostracal Groove. 222
- Bubel, A., An Electron-Microscope Study of Periostracum Repair in *Mytilus edulis*. 235
- Pfannenstiel, H.-D., Zur sexuellen Differenzierung von *Ophryotrocha puerilis* (Polychaeta: Eunicidae). [On Sexual Differentiation in *Ophryotrocha puerilis* (Polychaeta: Eunicidae)]. 245
- Barnes, J. R. and J. J. Gonor, The Larval Settling Response of the Lined Chiton *Tonicella lineata*. 259
- Board, P. A. and M. J. Feaver, Rearing and Radiographing the Shipworm *Lyrodus pedicellatus*. 265

Number 4 — issued June 1973

- Widdows, J., Effect of Temperature and Food on the Heart Beat, Ventilation Rate and Oxygen Uptake of *Mytilus edulis*. 269
- Wallace, J. C., Feeding, Starvation and Metabolic Rate in the Shore Crab *Carcinus maenas*. 277
- De Silva, S. S., Food and Feeding Habits of the Herring *Clupea harengus* and the Sprat *C. sprattus* in Inshore Waters of the West Coast of Scotland. 282
- van der Horst, D. J., R. C. H. M. Oudejans, A. G. Plug and I. van der Sluis, Fatty Acids of the Female Horseshoe Crab *Xiphosura (Limulus) polyphemus*. 291
- Glynn, P. W., Ecology of a Caribbean Coral Reef. The *Porites* Reef-Flat Biotope: Part I. Meteorology and Hydrography. 297
- Vermeij, G. J., Morphological Patterns in High-Intertidal Gastropods: Adaptive Strategies and their Limitations. 319
- Wells, F. E., Jr., Effects of Mesh Size on Estimation of Population Densities of Tropical Euthecosomatous Pteropods. 347
- Jones, D. J., Variation in the Trophic Structure and Species Composition of some Invertebrate Communities in Polluted Kelp Forests in the North Sea. 351

